

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2005/003122

A. CLASSIFICATION OF SUBJECT MATTER
INV. B60K6/04 B62D21/15

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B60D B62D H02M B60K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/191385 A1 (MIYAZAKI TOSHIHISA) 19 December 2002 (2002-12-19) abstract; figures	1-10, 12-18
X	US 2003/066694 A1 (MITA YOSHINORI ET AL) 10 April 2003 (2003-04-10) abstract; figures	1, 12
X	US 6 402 229 B1 (SUGANUMA YASUSHI) 11 June 2002 (2002-06-11) abstract; figures	1, 12
A	EP 0 559 176 A (TOYOTA JIDOSHA KABUSHIKI KAISHA; KANTO JIDOSHA KOGYO KABUSHIKI KAISHA) 8 September 1993 (1993-09-08) abstract; figures	1, 12
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

10 May 2006

Date of mailing of the international search report

17/05/2006

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 447 254 A (NISSAN MOTOR CO., LTD) 18 August 2004 (2004-08-18) abstract; figures	1,12
A	US 5 476 151 A (TSUCHIDA ET AL) 19 December 1995 (1995-12-19) abstract; figures	1,12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2005/003122

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002191385	A1	19-12-2002	CA 2390622 A1 JP 2002362254 A	13-12-2002 18-12-2002
US 2003066694	A1	10-04-2003	NONE	
US 6402229	B1	11-06-2002	JP 2000108813 A	18-04-2000
EP 0559176	A	08-09-1993	DE 69302845 D1 DE 69302845 T2	04-07-1996 07-11-1996
EP 1447254	A	18-08-2004	JP 2004243892 A US 2004159478 A1	02-09-2004 19-08-2004
US 5476151	A	19-12-1995	JP 2932133 B2 JP 6270697 A	09-08-1999 27-09-1994